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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/016,864	12/14/2001	Klaus Ludewigt	MOH-P990638	5943	
7:	590 12/03/2002				
LERNER AN	D GREENBERG, P.A.	EXAMINER			
Post Office Box		EYS AT LAW	RODRIGUEZ, ARMANDO		
Hollywood, FL	33022-2480		ART UNIT	PAPER NUMBER	

2828

DATE MAILED: 12/03/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

		M
	Application No.	Applicant(s)
	10/016,864	LUDEWIGT ET AL.
Office Action Summary	Examiner	Art Unit
	Armando Rodriguez	2828
The MAILING DATE of this communication ap	pears on the cover sheet w	ith the correspondence address
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut - Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b). Status	136(a). In no event, however, may a ly within the statutory minimum of thi will apply and will expire SIX (6) MOI e, cause the application to become A	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
1) Responsive to communication(s) filed on 16	September 2002 .	
2a) ☐ This action is FINAL . 2b) ☑ The	nis action is non-final.	
3) Since this application is in condition for allow closed in accordance with the practice under Disposition of Claims		
4) Claim(s) 1-13 is/are pending in the application	n.	
4a) Of the above claim(s) is/are withdra	wn from consideration.	
5) Claim(s) is/are allowed.		PAUL IP
6)⊠ Claim(s) <u>1-13</u> is/are rejected.		DALII ID
7) Claim(s) is/are objected to.		SUPERVISORY PATENT EXAMINER
8) Claim(s) are subject to restriction and/o	or election requirement.	TECHNOLOGY CENTER 2800
Application Papers		
9) The specification is objected to by the Examine	er.	
10)⊠ The drawing(s) filed on <u>16 September 2002</u> is/	are: a)⊠ accepted or b)□	objected to by the Examiner.
Applicant may not request that any objection to the		
11)☐ The proposed drawing correction filed on	_ is: a) approved b) □ (disapproved by the Examiner.
If approved, corrected drawings are required in re		
12) ☐ The oath or declaration is objected to by the Ex	xaminer.	
Priority under 35 U.S.C. §§ 119 and 120		
13) Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C.	§ 119(a)-(d) or (f).
a)⊠ All b)□ Some * c)□ None of:		
 Certified copies of the priority documen 	ts have been received.	
Certified copies of the priority documen	ts have been received in A	Application No
 3. Copies of the certified copies of the price application from the International But See the attached detailed Office action for a list 	ureau (PCT Rule 17.2(a)).	
14) Acknowledgment is made of a claim for domest	tic priority under 35 U.S.C.	. § 119(e) (to a provisional application).
 a) ☐ The translation of the foreign language pr 15) ☐ Acknowledgment is made of a claim for domes 		
Attachment(s)	_	
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)

U.S. Patent and Trademark Offic PTO-326 (Rev. 04-01) Application/Control Number: 10/016,864

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DETAILED ACTION

Response to Arguments

Applicant's arguments with respect to claims 1-13 have been considered but are moot in view of the new ground(s) of rejection.

Priority

Applicant cannot rely upon the foreign priority papers to overcome this rejection because a translation of said papers has not been made of record in accordance with 37 CFR 1.55. See MPEP § 201.15.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in-
- (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or
- (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).

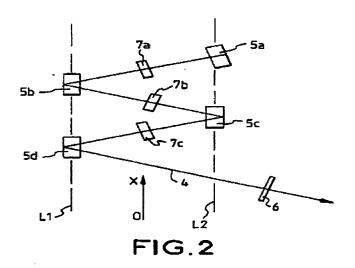
Claims 1-7 are rejected under 35 U.S.C. 102(e) as being anticipated by Pocholle et al (FR 2785098).

In figure 2 Pocholle et al illustrates a laser system having a resonator, a plurality of gain medium (5a-5d) within the resonator in the shape of a disc, a plurality of focusing lens (7a-7c) within the resonator for focusing the beams onto the gain medium.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 8 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pocholle et al (FR 2785098) in view of Brauch et al (PN 5,553,088).

Pocholle et al does not disclose the composition or dimensions of the gain medium with respect to the absorption of the beam.

In table 1 of Brauch et al discloses the composition and thickness of the gain medium with respect to the absorption length of the beam.

The "person having ordinary skill" in this art has the capability of understanding the scientific and engineering principles applicable to the claimed invention. Therefore,

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having the disclosure of table1 would enable a person of ordinary skill in the art to optimize and obtain a working range of the gain mediums.

TABLE 1

Material	Doping (%)	eff. Absorption Length [mm]	typ, Multi- pass Factor	Thickness [mm]	Pumping Power Density [kW/cm ²]	Pumped Dismeter [mm]
Yb:YAO, 300K	10	1	8	0.2-0.4	3–10	0,2–10
Yb:YAG, 200K	20	0.3	4	0.150.3	1-20	0.15-10
Nd:YAG	1	1-4	2-4	0.5-2	<5	0.5-40
Nd:YVO₄	2	0.15	2-4	0.1-0.2	<20	0.1-5
Tm:YVO4, 300K	5	0.6	4-8	0.15-0.4	2-5	0.15-10
Ti:Al ₂ O ₃	0,1	3	8	0.5-1	10-20	0.5-20
miscellaneons		0.1-3	2-8	0.1-2		0.1-40

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Claims 10-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pocholle et al (FR 2785098) in view of Itai (PN 5,148,441).

Regarding claims 10,12,13.

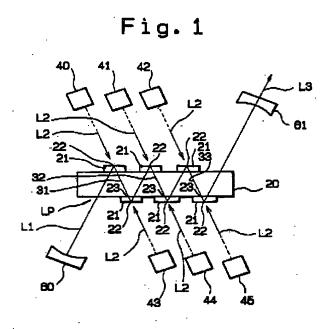
Output couplers which are partially transmissive mirrors output the laser beam and reflect the pump beam are well known and commonly used in the laser art, as shown in Figure 1 of Itai.

Regarding claim 11.

The use of beam splitters for coupling the pump beam into a laser system is notoriously well known in the laser art.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Armando Rodriguez whose telephone number is (703) 308-6218. The examiner can normally be reached on 10-hour day / M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul lp can be reached on (703) 308-3098. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7721 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-4881.

Armando Rodriguez Examiner

Art Unit 2828

Paul Ip Supervisor Art Unit 2828

AR/PI

December 1, 2002